

蝶と蛾 *Tyô to Ga* 44 (1): 18-22, June 1993

New records of *Eulamprotes atrella* ([Denis & Schiffermüller]) and *Paltodora cytisella* (Curtis) (Lepidoptera, Gelechiidae) from Japan

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Abstract *Eulamprotes atrella* ([Denis & Schiffermüller]) and *Paltodora cytisella* (Curtis) are recorded from Japan for the first time. External and genital features of the two species are illustrated.

Key words *Eulamprotes atrella*, *Paltodora cytisella*, Gelechiidae, new record, Japan.

The genera *Eulamprotes* Bradley, 1971, and *Paltodora* Meyrick, 1894, distributed mainly in the Palaearctic region, have not been recorded from Japan so far. Recently I had an opportunity to examine many specimens of gelechiid moths collected by Dr. Kumata, and found in them three specimens of the genus *Eulamprotes* and two of the genus *Paltodora*. I examined two other specimens of *Paltodora*, one offered by Mr. Ueda and the other obtained by me. Close examinations of external and genital features revealed that those specimens were identified as *Eulamprotes atrella* ([Denis & Schiffermüller]) and *Paltodora cytisella* (Curtis), respectively.

Before going further, I wish to thank Dr. T. Kumata of Hokkaido University for his kindness in offering many specimens and kind advice, Dr. I. Kanazawa of Osaka Museum of Natural History and Mr. T. Ueda of University of Osaka Prefecture for offering specimens.

Eulamprotes atrella ([Denis & Schiffermüller]) (Fig. 1-A)

Tinea atrella [Denis & Schiffermüller], 1775, *Ankündigung syst. Werkes Schmett. Wienergegend* : 140.
Eulamprotes atrella : Bradley, 1971, *Entomologist's Gazette* 22 : 27.

Specimens examined. 2 ♂ 1 ♀, Kenebetu, Nemuro, Hokkaido, 16/viii/1972 (T. Kumata).

Distribution. Palaearctic region from Europe to Japan (new record).

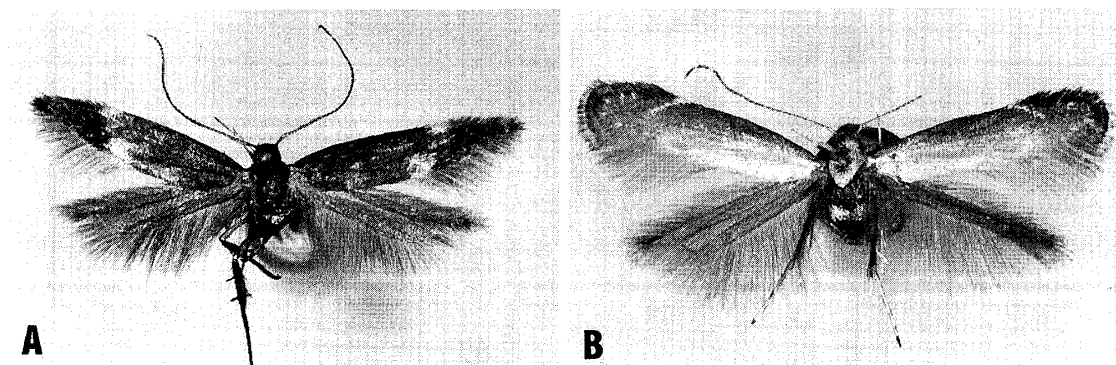


Fig. 1. Adult specimens. A. *Eulamprotes atrella* ([Denis & Schiffermüller]). B. *Paltodora cytisella* (Curtis).

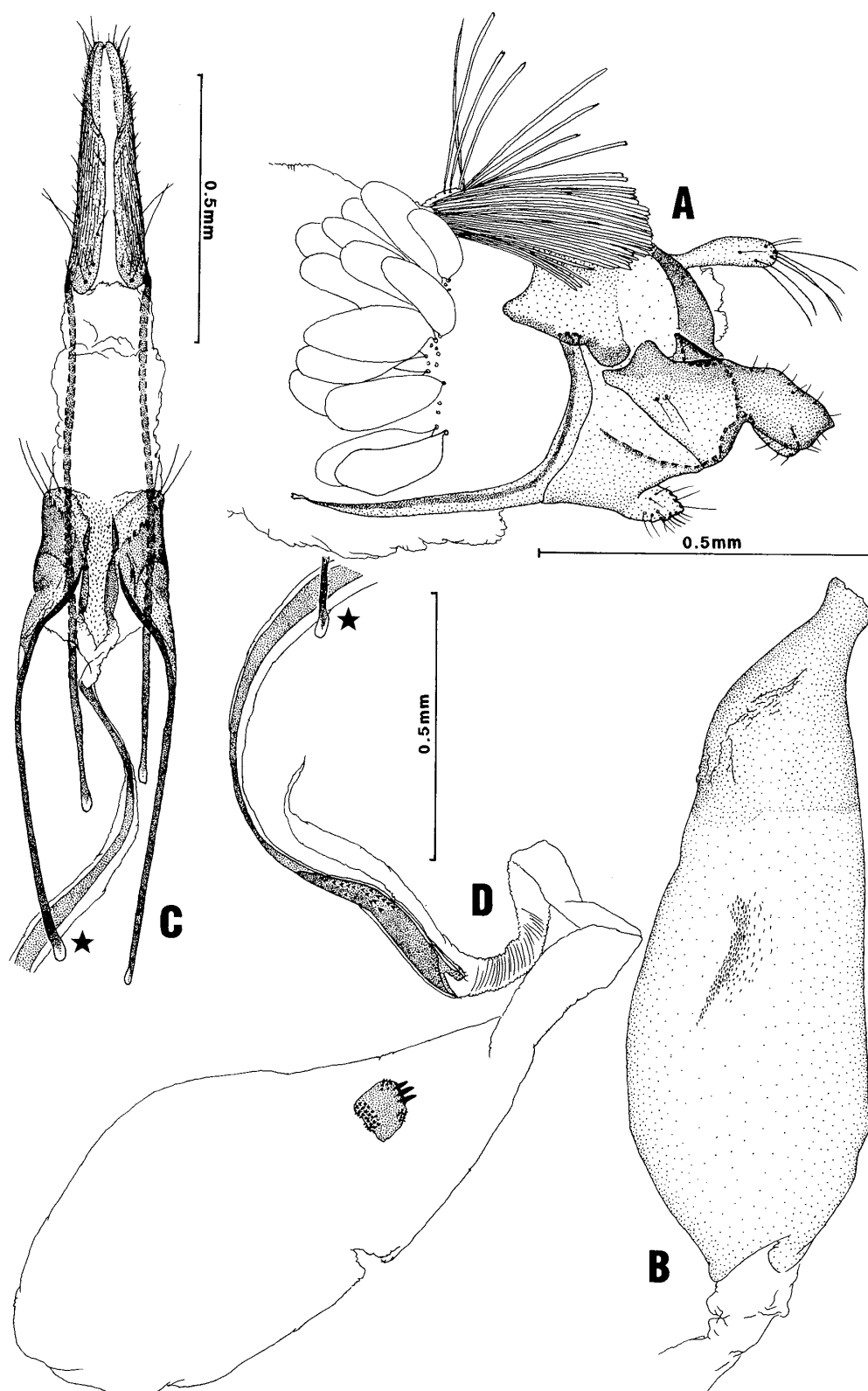


Fig. 2. *Eulamprotes atrella* ([Denis & Schiffermüller]). A. Male genitalia in lateral view, aedeagus omitted. B. Aedeagus. C. Female genitalia in ventral view, apical part of bursa copulatrix omitted. D. Bursa copulatrix.

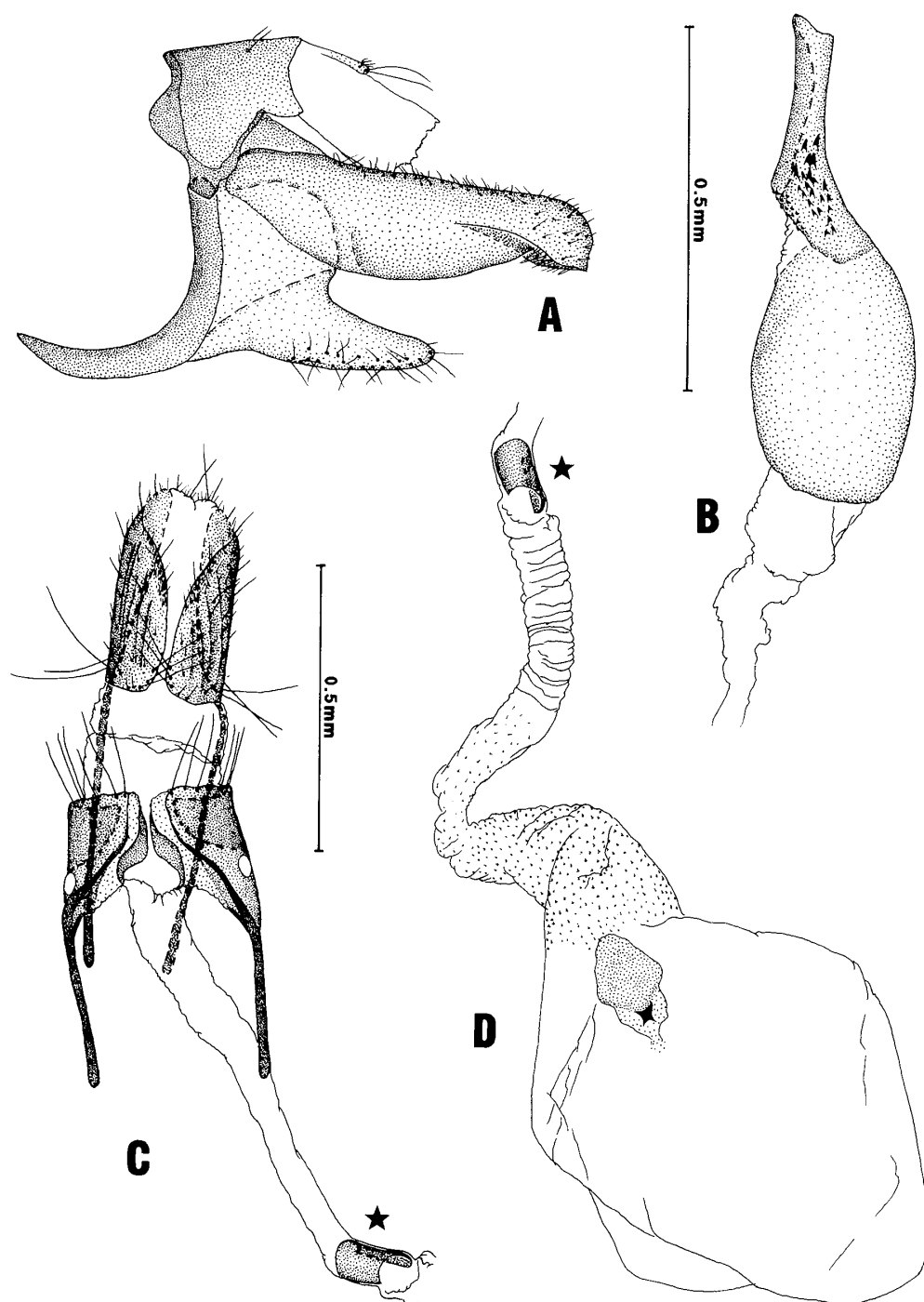


Fig. 3. *Paltodora cytisella* (Curtis). A. Male genitalia in lateral view, aedeagus omitted. B. Aedeagus. C. Female genitalia in ventral view, apical part of bursa copulatrix omitted. D. Bursa copulatrix.

Host plants. *Hypericum* spp. (Hypericaceae) in Europe, unknown in Japan.

Notes. The genus *Eulamprotes* is allied to *Argolamprotes* Benander, 1945. At a glance, this species is similar to *Argolamprotes micella* ([Denis & Schiffermüller]) well known from Japan, but is easily distinguished from it by the fore wing with two yellow blotches (Fig. 1-A), the massive and broad aedeagus with numerous minute cornuti in the male, and the

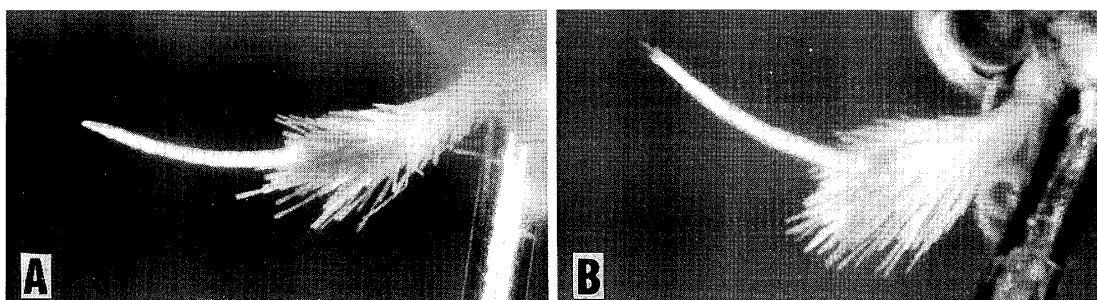


Fig. 4. Labial palpus of *Paltodora cytisella* (Curtis). A. Japanese specimen. B. European specimen.

ostium with lateral elongated plates and the long ribbon-like antrum in the female (Fig. 2).

Paltodora cytisella (Curtis) (Fig. 1-B)

Cleodora cytisella Curtis, 1837, *Br. Ent.* **14**, no. 671

Paltodora cytisella: Meyrick, 1894, *Entomologist's mon. Mag.* **30**: 230

Specimens examined. Japan: 1 ♂, Wassamu, Hokkaido, 24/viii/1962 (T. Kumata); 1 ♀, Siriuti, Osima, Hokkaido, 6/viii/1976 (T. Kumata); 1 ♀, Ootani, Suzu-City, Isikawa-Pref. Honsyu, 8/vii/1991 (T. Ueda); 1 ♀, Mosiri, Hokkaido, 21/vii/1991 (Y. Sakamaki). Italy: 1 ♀, Sardegna, Centralis, Aritzo, Strada Panoramica, ca 1000 m, 8/vii/1978 (C. M. Brandstetter).

Distribution. Palaearctic region from Europe to Japan (new record), Mediterranean region and Oriental region.

Host plant. *Pteris aguilina* (Pteridaceae) in Europe, unknown in Japan.

Notes. The genus *Paltodora* is monotypic.

This species is characterized by spread hairs of the second joint of the labial palpus and by the yellowish-brown fore wing with darkened costal and apical margins (Fig. 1-B). In the genitalia, it is also characterized by the narrowly elongated valva, the slightly sigmoid aedeagus and the signum with double crescent points (Fig. 3). In Japanese specimens the hairs of the labial palpus are spread more roughly and ventrally mixed with brown hairs more densely than in the European (Fig. 4). The larvae form galls on stems of the host plant.

Literature

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摘 要

Eulamprotes atrella と *Paltodora cytisella* の日本からの初記録 (鱗翅目, キバガ科) (坂巻祥孝)

筆者は *Eulamprotes atrella* ([Denis & Schiffermüller]) キモンアカガネキバガ (新称) (Fig. 1-A) と *Paltodora cytisella* (Curtis) マエチャキバガ (新称) (Fig. 1-B) の日本産標本を検討する機会を得たのでここに報告する。これらの種はそれぞれ所属する属も日本初記録なので成虫の写真および交尾器を図示した。キモンアカガネキバガは、ヨーロッパ、バルカン半島、ロシア西部、近東、沿海州に分布し、ヨーロッパでの寄主植物はオトギリソウ属である。マエチャキバガはヨーロッパ、地中海沿岸、北西アフリカ、ロシア西部、インド、東南アジアに分布し、ヨーロッパでは幼虫はワラビの茎に虫こぶを作ると報告されている。

(Accepted March 29, 1993)